

SIZING A RAIN GARDEN WORKSHEET

To size a rain garden, you will need to measure your drainage area, identify your soil type (Infiltration Rate) and determine depth of rain garden.

1. DRAINAGE AREA. Measure your drainage area.

- a. Roof area: _____ feet X _____ feet = _____ square feet
- b. Lawn area: _____ feet X _____ feet = _____ square feet
- c. Paved surfaces: _____ feet X _____ feet = _____ square feet
- d. **Total drainage area (a+b+c): _____ square feet**

2. SOIL TYPE (Infiltration rate).

Standard infiltration rate of soils (inches per hour)

Soil type (please circle) sand silt (loam) clay
 1 in/hr .5 in/hr .15 in/hr

3. RAIN GARDEN DEPTH. To find the depth of your rain garden, take the infiltration rate and multiply it by 24 hours.

Example: Infiltration rate for a clay soil = .15 in/hr
.15 in/hr x 24 hours = **3.6 inches deep**

4. RAIN GARDEN SIZE. To find the area of the rain garden, take the drainage area and divide it by the depth of your rain garden. Total drainage area (#1) divided by the depth of your rain garden (#3).

_____ drainage area (sq ft) (#1d) ÷ _____ depth of rain garden (in) (#3) = _____ (sq ft) rain garden